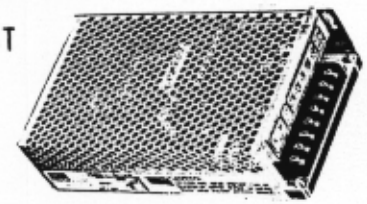
MEAN WELL
SWITCHING POWER SUPPLY

S-150 SERIES

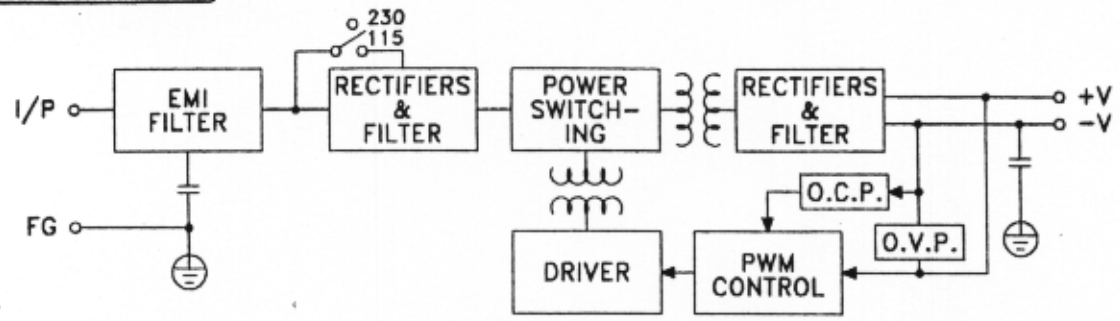
- LOW COST, HIGH RELIABILITY
- 105℃ OUTPUT CAPACITOR
- INTERNATIONAL AC INPUT RANGE
- BUILT IN EMI FILTER, LOW RIPPLE NOISE
- HIGH EFFICIENCY, LOW WORKING TEMPERATURE
- SOFT-START CIRCUIT, LIMITING AC SURGE CURRENT
- SHORT CIRCUIT, OVERLOAD, OVERVOLTAGE PROTECTED
- COMPACT SIZE, LIGHT WEIGHT
- 100% FULL LOAD BURN-IN TEST



MODEL / SPECIFICATION	S-150-5	S-150-7.5	S-150-9	S-150-12	S-150-15	S-150-24
DC OUTPUT VOLTAGE	5V	7.5V	9V	12V	15V	24V
OUTPUT V. TOLERANCE	±2%	±1%	±1%	±1%	±1%	±1%
OUTPUT RATED CURRENT	30A	20A	16.7A	12.5A	10A	6.5A
OUTPUT CURRENT RANGE	0-30A	0-20A	0-16.7A	0-12.5A	0-10A	0-6.5A
RIPPLE & NOISE (p-p)	100mVp-p	120mVp-p	120mVp-p	120mVp-p	150mVp-p	150mVp-p
LINE REGULATION	±0.5%	±0.5%	±0.3%	±0.3%	±0.3%	±0.2%
LOAD REGULATION	±0.5%	±0.5%	±0.3%	±0.3%	±0.3%	±0.2%
DC OUTPUT POWER	150W	150W	150.3W	150W	150W	150W
FFICIENCY	78%	80%	80%	82%	84%	85%
DC VOLTAGE ADJ.	4.5-5.5V	6-8.3V	8-10.4V	10.6-13.2V	13.5-16.5V	21-28V
INPUT VOLTAGE RANGE	88～132VAC / 170～264VAC SELECTED BY SWITCH ON P.C.B.					
INPUT FREQUENCY	47～63Hz					
AC CURRENT	3.2A/115V 1.6A/230V					
INRUSH CURRENT	COLD START 30A (115VAC/230VAC)					
OVERLOAD PROTECTION	105%～150% TYPE:FOLDBACK CURRENT SHUTDOWN RECOVERY:RE-POWER ON					
OVER V. PROTECTION	VO＊115%～135%					
OVER TEMP. PROTECTION	-----					
TEMP. COEFFICIENT	±0.03% / ℃ (0～50℃)					
SETUP,RISE,HOLD UP TIME	100ms, 50ms, 20ms					
WITHSTAND VOLTAGE	I/P-O/P:3KV (NOTE:6) I/P-FG:1.5KV O/P-FG:0.5KV 1min.					
WORKING TEMP.,HUMIDITY	-10℃～+60℃, 20%～90% RH (REFER TO OUTPUT DERATING CURVE)					
STORAGE TEMP.,HUMIDITY	-20℃～+85℃, 10%～95% RH					
DIMENSION	199＊110＊50mm CASE:906					
WEIGHT	0.8Kgs					
SAFETY	UL1012, TUV EN60950 (IEC950, UL1950) APPROVED					
MC	CISPR22 (EN55022) CLASS B, IEC801-2,3,4, IEC555-2 VERIFICATION					

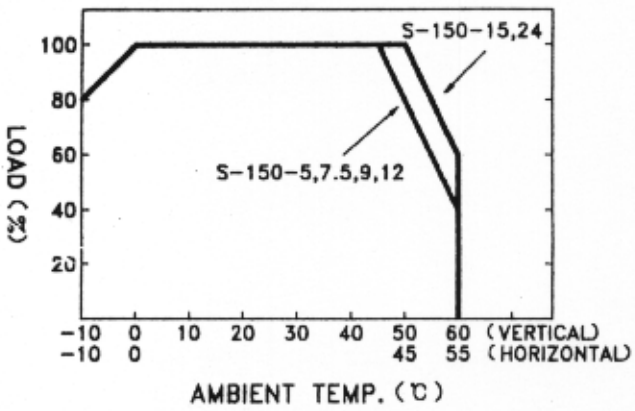
NOTE:
1. ALL PARAMETERS ARE SPECIFIED AT 230VAC INPUT, RATED LOAD, 25℃ AMBIENT.
2. TOLERANCE : INCLUDE SET UP TOLERANCE, LINE REGULATION, LOAD REGULATION.
3. RIPPLE & NOISE ARE MEASURED AT 20MHz BY USING A 12" TWISTED PAIR TERMINATED WITH A 0.1uF & 47uF CAPACITOR.
4. LINE REGULATION IS MEASURED FROM LOW LINE TO HIGH LINE AT RATED LOAD.
5. LOAD REGULATION IS MEASURED FROM 0% TO 100% RATED LOAD.
6. C2,3,11 MUST BE REMOVED.

BLOCK DIAGRAM

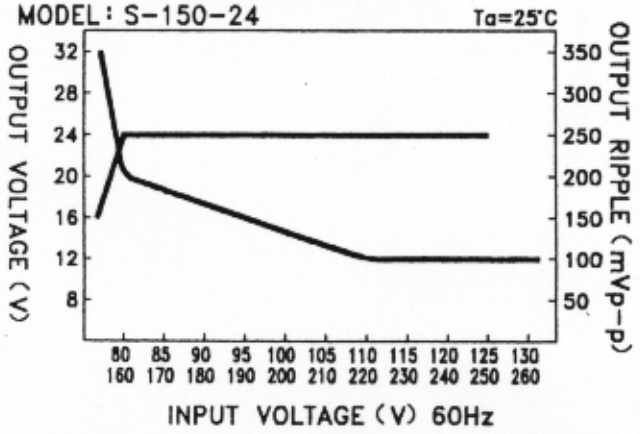


fosc : 25KHz

OUTPUT DERATING



STATIC CHARACTERISTICS



DIMENSION (mm)

- CASE : 906
- TERMINAL PIN NO. ASSIGNMENT
  - PIN 1,2 : AC INPUT
  - PIN 3 : FG ⏚
  - PIN 4,5 : DC OUTPUT -V
  - PIN 6,7 : DC OUTPUT +V